



STRENGTH THROUGH EVOLUTION

PICK AND CARRY CAPACITIES
FROM 2 TONNES TO 90 TONNES



Available power options:



Diesel



DC Electric



LPG



part of the Hird
group of companies

Pick & carry alternatives

C&A pick & carry



The new tracked nine tonne Valla 90TRX can pick & carry its maximum capacity

Our industrial crane feature a year ago featured pick & carry cranes and to be perfectly honest there have been few significant developments when thinking of the traditional European industrial crane produced by manufacturers such as Ormig Valla, Galizia and JMG.

What has changed however is the growth in other types of equipment capable of picking and carrying a load. Of course there have been new models from the 'traditional' manufacturers. One of these - sold in the UK by local distributor Hird - is the bespoke Valla 90TRX on tracks, designed and built specifically for customer Halifax-based Northern Escalator Installations, for working on escalator and elevator installations. Slotting between the five tonne Valla 55TRX and the 12 tonne 120DTRX the new 90TRX has an eight metre, four section main boom and a three metre jib option with up to 15 degrees of offset.

Measuring just 3.4 metres long and 1.74 metres wide it has an overall height of 2.35 metres. These first two units are powered by LPG,

but options also include diesel and battery electric. Although the new crane has no slew ring, the fact that it can virtually turn on the spot and certainly within its own length, helps overcome the fact in the applications that it targets.

Hird has also delivered two battery electric Valla cranes - a 12 tonne 120E and an 18 tonne 180E to Portsmouth-based lifting and rigging company Rapid Response Solutions. The cranes have 10 metre hook heights, non-marking tyres, hydraulic luffing jibs and custom-made carry frame. They went straight to work, with the 120E operating alongside the company's new 300 tonne hydraulic skidding system, while the 180E was used to support the set-up of the company's MegaLift system.

Managing director Paul Barber said: "The range of mobile cranes with

The Kato CR-350RI can pick & carry up to 9.5 tonnes at up to three metres radius



pick & carry duties is dwindling and our dated Iron Fairy yard cranes are becoming a thing of the past. Traditionally this market would have been met by the Iron Fairies with diesel engines, but these modern cranes are far more compact, battery powered and have non-marking tyres."

Interesting alternatives

As can be seen in the feature on page 17, the latest Kato City cranes also offer a decent pick & carry capability - the CR-350RI for example can pick & carry up to 9.5 tonnes at up to three metres radius.

It can also handle half a tonne at 13 metres with a travel speed of two kilometres an hour.

The relative demise of the City crane over the past decade has meant that companies looking for a road-going 'pick & carry' crane were forced to look elsewhere, with some opting for the articulated Terex-Franna cranes, although they are very substantial machines dimensionally speaking. Another alternative that appears to be growing is the spider crane. Previously there have been relatively few tracked spiders that could pick & carry a load - the



Rapid Response's new 18 tonne Valla 180E with MegaLift



Bauma saw the introduction of the new, compact all-electric Gcar-crane from South Korean company Komac



The Terex Franna cranes were one of the few recent road-going pick and carry cranes



The new Maeda MC805 - seen here at Vertikal Days - can lift and carry one tonne

ORMIG

PICK and CARRY



The 7.5 tonne Jekko SPX275 CDH can pick & carry a useful two tonnes



The five tonne MPK50 has a maximum lift height of eight metres



has a maximum lift height of eight metres and can lift at a radius of up to 4.5 metres and has a partial slew capability. The battery powered unit is fully radio remote controlled and features a front load stabilisation bar to support loads when travelling. Jib options will also be available.

All-electric Komac

The carry deck crane is another pick and carry alternative most popular in North America. Bauma saw the introduction of the new, compact all-electric Gcar-crane from South Korean company Komac. Claiming to be the world's only production 'all-electric carry deck crane' the company has two models in its range - the 4500 and the 9000.

Both can work either free on tyres or on A frame outriggers giving

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The new Jekko MPK25

maximum lift capacities of 2,990kg on tyres and 4,240kg on outriggers, for the 4500 and 4,120kg and 8,160kg respectively for the 9000. These figures are maximum lifts to the front of the crane, reduced slightly if lifting to the side or rear.

The compact 4500 has a total length of 4,268mm, an overall width of 1,588mm and height of 2,206mm. The deck height is 874mm and has a 2,720kg maximum capacity. The three section main boom is 8.2 metres long and is topped by a swingaway extension, with offsets of zero, 25 and 50 degrees giving a maximum tip height of 10.2 metres. Power is supplied by 20kW drive motors using 72 volt, 300Ah batteries, with an eight hour charge giving an operating time of about three hours. Maximum speed is five kilometres per hour, and the unit features an integrated LMI monitor built-into the guard-protected driver station. Overall weight is four tonnes.

The larger Gcar-crane 9000 has a maximum lifting capacity on tyres and outriggers of 4,120kg and 8,160kg respectively. At almost double the weight (7,695kg) the 9000 is about 1.5 metres longer, two metres wide with a deck height of just over a metre. Travel speed is considerably faster at 14 kilometres an hour and the main boom is 9.1 metres long, with the swingaway taking the tip height to 11.55 metres. Options include a man basket.

Grove upgrades

Keeping with the carry deck solution, Grove is upgrading its line

Grove is upgrading its line of carry deck cranes throughout this year and into 2017 with Tier 4 Final engines.



of carry deck cranes throughout this year and into 2017 with Tier 4 Final engines that comply with the latest North American emissions standards. The new cranes will adopt a GCD prefix, reflecting Grove Carry Deck. The first new crane in the series will be the 25 ton GCD25 with a Cummins QSB4.5L Tier 4 Final engine.

The new crane features a 21.5 metre boom with optional 5.2 metre extension for a maximum tip height of 28 metres. It has four wheel drive and four wheel steer and a four-position pivoting boom nose for work in applications with low head room clearance. Additional stability comes from four beam and jack outriggers with a multiple position set-up to suit confined areas and yet maximise capacity where space permits.

CE Smart-Rig

US-based Smart-Rig Cranes has launched a CE certified version of its S1 micro crane called the S1 Global. The tiny crane has a maximum capacity of 885kg, a six metre manual telescopic three-

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section boom giving a 5.5 metre hook height. The unit is battery powered, has an overall width of just 800mm, overall weight is only 660kg and it can pick & carry its full load chart. In addition to conforming fully to CE standards, the S1 Global also complies with all applicable standards in the USA, Canada, Australia and New Zealand.

The S1 Global also uses the same fold-out outriggers, pull-back water tank counterweight and three-piece manual pull-out boom as the standard S1 crane. Features include a hoist with 30 metres of rope, along with a number of aesthetic and safety updates including a



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tilt sensor alarm, weatherproof on-board charger, rear brakes, auto brake on winch and dual safety stops on the boom.

Founder and chief executive Josh Clark said: "The S1 Global has zero emissions, low noise levels and mobility for rooftop lifting, indoors or outdoors or tight spaces. The product functions for many industries that need portability including glass installation, HVAC, aircraft, maintenance, construction, vehicle motor and parts repair and many more."

Hooka solution

We first reported on the launch of the Hooka pick & carry crane from Hook-Up Solutions at last year's Vertical Days. It would appear the compact unit is finding a niche in the market particularly when used for moving bulk building materials. The 1.5 tonne capacity Hooka has a 700mm longer boom giving it a maximum lift height of more than three metres. This makes it easier to lift and place bulk-bags or pallet material onto the carry deck.

The unit features an integrated load-lock - secured by rear side restraints and by the front outriggers when in the travel position. Weighing 1,700kg the crane uses a Hinowa tracked chassis, which at a metre wide is able to navigate most narrow paths.

One of its recent applications included helping on a 10 week contract to renovate a canal lock in the Worcester basin for the Canals and River Trust in the UK. The Hooka was employed to unload bulk materials and pallets of bricks that had been delivered to site, before moving them directly to their point of use, saving double handling, manual lifting, time and money.

The old broken up stonework was then carried away by the machine in dumpy bags and transferred straight onto the waste-away tipper truck.

Replacement 350kg coping stones were then installed with the Hooka transporting them to the edge of the canal, before carefully lowering them into position alongside the rigging team. The unit dramatically cut and in some cases eliminated heavy manual handling, helping to minimise the risk of back injury, and also moved materials as diverse as 650kg packs of eight metre long canal damming timbers and 500kg packs of Harris fencing.

Timbers about to be loaded on to the CRT barge



Moving 500kg Harris fencing



Completing the coping stones